

IN THE CLAIMS:

Please amend the claims as follows:

Listing of Claims:

Claims 1 to 8 (Cancelled).

Claims 9 to 12 (Cancelled).

Claim 13. (Cancelled).

Claim 14. (Currently Amended).

The adsorption filter according to Claim ~~13~~ 20,

wherein the phase change temperatures of the different phase change materials (7', 7'') increase in the direction of flow through the adsorption filter.

Claim 15. (Cancelled).

Claim 16. (Cancelled).

Claim 17. (Currently Amended).

The adsorption filter according to claim ~~15~~ 20,
wherein the phase change material (7') used in the chamber (1) has a phase change temperature of approximately 30°C, while the phase change material (7''), which is in the chamber (2) has a phase change temperature of approximately 60°C to 70°C.

Claim 18. (Currently Amended).

The adsorption filter according to claim ~~13~~ 20,
wherein the filler material has a volume amount of approximately 5% to 15%, based upon the total volume.

Claim 19. (Currently Amended).

The adsorption filter according to claim ~~15~~ 20,
wherein the volume amount of the phase change material (7', 7'') is approximately 20% with respect to activated carbon in both chambers (1,2).

Claim 20. (New).

An adsorption filter for fuel vapors from the tank container in particular of an internal combustion engine in particular of a motor vehicle, said filter being regenerable by desorptive countercurrent backflushing and in which the adsorptive and/or desorptive filter material has heat-storing substances comprised of phase change material (PCM material = phase change material),

wherein

- different phase change materials (7', 7'') with individual phase change temperatures (conversion temperatures) are provided, which are arranged one after the other in the direction of flow through the adsorption filter,
- the phase change materials (7', 7'') are distributed in small units within the reactive filter material,

- the filter material is activated carbon, which is in the form of granules (6), whereby wax in the form of tiny sheathed beads combined to form larger pellets is added as a phase change material (7', 7'') to the granules (6) of the activated carbon, whereby these pellets contains additional filler material having a good conductivity; and

wherein

- the adsorption filter comprises two interconnected chambers (1,2), whereby the chamber (1) is on the fuel vapor end, while the chamber (2) borders the fresh air end, so that the chamber (1) is upstream of the chamber (2) with respect to the direction of flow through the adsorption filter,

- in chamber (1) is arranged phase change material consisting of (7'), while in chamber (2) is arranged phase change material consisting of (7''); and

wherein said phase change material (7'') has a relatively high phase change (conversion) temperature and said phase change material (7') has a relatively low phase change (conversion) temperature.